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Mfr. of highly polymerised polyester with low acetaldehyde content - by
solid phase polymerisation with heat of pre-crystallised polyester
previously subjected to moisture conditioning

Patent Assignee: TOYOBO KK (TOYM)
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Patent Details:

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Abstract (Basic): JP 59219328 A

Method comprises subjecting a polyester having ethylene
terephthalate units as principal repeat units, whose intrinsic viscosity
is 0.4 or more and density is 1.35 or less, to (1) moisture
conditioning so that the moisture content is at least 0.2 wt%, (2) a
process of pre-crystallisation at 140 deg.C or higher, and (3)
subjecting the resultant to polymerisation at a solid phase at a temp.
of 180-240 deg.C in an inert gas atmos. or reduced pressure.

ADVANTAGE - The content of acetaldehyde in the resulting pellet can
be reduced quickly and effectively. The highly polymerised polyester
prepd. by this method is suitable for packing material of foodstuff,
medicinal preps. etc.

O/O

Derwent Class: A23

International Patent Class (Additional): C08G-063/26